



SIMATIC DP, ELECTRON. MODULE F. ET 200SP, F-DI 8X24VDC HF, 15 MM WIDTH, UP TO PL E (ISO 13849-1)/ SIL3 (IEC 61508)

Product type designation

General information

Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal can be configured/integrated as of version	V12
• STEP 7 can be configured/integrated as of version	V5.5 SP3 / -
• PROFINET as of GSD version/GSD revision	V2.31

Supply voltage

Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes

Input current

Current consumption (rated value)	75 mA; without load
Current consumption, max.	21 mA; From the backplane bus

Encoder supply

Number of outputs	8
short-circuit protection	Yes; Electronic (response threshold 0.7 A to 1.8 A)
Output current	
• up to 60 °C, max.	0.3 A
24 V encoder supply	

<ul style="list-style-type: none"> • 24 V • short-circuit protection • Output current, max. 	Yes; min. L+ (-1.5 V) Yes 800 mA
Power	
Power available from the backplane bus	70 mW
Power losses	
Power loss, typ.	4 W
Address area	
Address space per module	
<ul style="list-style-type: none"> • Input • Output 	6 byte 4 byte
Digital inputs	
Number of digital inputs	8
m/p-reading	Yes; p-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> • Type of input voltage • Rated value (DC) • for signal "0" • for signal "1" 	DC 24 V -30 to +5V +15 to +30V
Input current	
<ul style="list-style-type: none"> • for signal "1", typ. 	3.7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> — Parameterizable — at "0" to "1", min. — at "0" to "1", max. — at "1" to "0", min. — at "1" to "0", max. 	Yes 0.4 ms 20 ms 0.4 ms 20 ms
for counter/technological functions	
<ul style="list-style-type: none"> — Parameterizable 	No
Cable length	
<ul style="list-style-type: none"> • shielded, max. • Unshielded, max. 	1 000 m 500 m
Interrupts/diagnostics/status information	
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm • Hardware interrupt 	Yes No
Diagnostics indication LED	

- | | |
|--|-------------------------|
| • RUN LED | Yes; Green LED |
| • ERROR LED | Yes; Red LED |
| • Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| • Channel status display | Yes; Green LED |
| • for channel diagnostics | Yes; Red LED |
| • for module diagnostics | Yes; green/red DIAG LED |

Galvanic isolation

Electrical isolation channels

- | | |
|--|-----|
| • between the channels | No |
| • between the channels and the backplane bus | Yes |
| • between the channels and the supply voltage of the electronics | No |

Permissible potential difference

between different circuits	75V DC/60V AC
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Isolation

Isolation checked with	707 V DC (type test)
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Ambient conditions

Ambient temperature in operation

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|---------------------------------|-------|
| • horizontal installation, min. | 0 °C |
| • horizontal installation, max. | 60 °C |
| • vertical installation, min. | 0 °C |
| • vertical installation, max. | 50 °C |

Dimensions

Width	15 mm
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Weights

Weight, approx.	49 g
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last modified:	12.03.2015
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